## **Defence Institute of Advanced Technology, Pune**

#### **400 MHz Nuclear Magnetic Resonance Spectrometer:**

Make: Bruker

Model: Ascend 400

Applications: Characterization of Organic, Organometallic

Compounds, Monitoring Reaction





## **Differential Scanning Calorimeter:**

Make: NETZSCH

Model: DSC 204 Fl Phoenix

**Applications:** To measure various thermal properties of materials such as Tg, heat capacity, melting temperature etc.

#### X-Ray Diffraction Spectrometer:

Make: Proto Manufacturing

Model: Proto AXRD

**Applications:** Identification of unknown

crystalline materials.





# **HPLC Chromatography:**

Make: HITACHI (HPLC)

Model: L-2490

**Applications:** To purify individual constituents from

mixture

## **Thermogravimetric Analyser-FTIR:**

Make: Perkin Elmer

Model: STA 8000

**Applications:** Thermal Analysis of

Compounds





## Flash Chromatography:

Make: Agela Technology

Model: MP200

**Applications:** To purify individual constituents from mixture



# **Magnetic Force microscopy (MFM)**

Make: Oxford Instrument

Model: VFM3

**Applications:** To image various magnetic structures including domain walls, closure domains, recorded magnetic bits, etc.

#### **GAS Chromatography:**

Make: Thermo Scientific

Model: Trace GC700

**Applications:** To purify individual

constituents from mixture





## **Thermogravimetric Analyser**

Make: Perkin Elmer

Model: STA-6000

**Applications:** Thermal Analysis of Compounds

#### Fluorescence Spectrophotometer:

Make: AGILENT

Model: G9800A

**Applications:** For compound/material

characterization





## **UV Spectrophotometer:**

Make: Analytica Jena

**Model: SPECORD 210** 

**Applications:** For compound/material

characterization

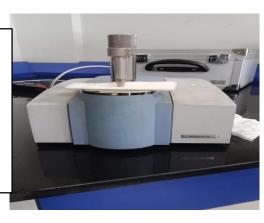
## **FTIR Spectrometer:**

Make: BRUKER

Model: ALPHA

Applications: For compound/material

characterization





## Particle Size Analyser:

Make: Sympatec

Model: Nanophox

**Applications:** To measure the size of ultra fine

particles

# **Scanning Electron Microscope:**

Make: Zeiss

Model: Sigma

**Applications:** High-resolution images of shapes of objects (SEI) and chemical compositions

